

RoamAbout®

Wireless Networking

RBT-8110 Wireless Switch Installation Guide



Electrical Hazard: Only qualified personnel should perform installation procedures.

Riesgo Electrico: Solamente personal calificado debe realizar procedimientos de instalacion.

Elektrischer Gefahrenhinweis: Installationen sollten nur durch ausgebildetes und qualifiziertes Personal vorgenommen werden.

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Part Number: 9034285-01 November 2006

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Federal Communications Commission (FCC) Notice

This device complies with Part 15 of the FCC rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

NOTE: This equipment has been tested and found to comply with the limits for a class A digital device, pursuant to Part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment uses, generates, and can radiate radio frequency energy and if not installed in accordance with the operator's manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause interference in which case the user will be required to correct the interference at his own expense.

WARNING: Changes or modifications made to this device which are not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Safety and EMC Requirements

The RBT-8110 meets the following safety and electromagnetic compatibility (EMC) requirements:

Item	Specification
Safety	UL 60950, CSA C22.2 No. 60950, EN 60950, IEC 60950
Electromagnetic Compatibility (EMC)	FCC: 47 CFR Parts 2 and 15, ICES-003, EN 55022, EN 61000-3-2, EN 61000-3-3, EN 55024, AS/NZS CISPR 22, VCCI V-3

Industry Canada Notice

This digital apparatus does not exceed the class A limits for radio noise emissions from digital apparatus set out in the Radio Interference Regulations of the Canadian Department of Communications.

Le présent appareil numérique n'émet pas de bruits radioélectriques dépassant les limites applicables aux appareils numériques de la class A prescrites dans le Règlement sur le brouillage radioélectrique édicté par le ministère des Communications du Canada.

Class A ITE Notice

WARNING: This is a Class A product. In a domestic environment this product may cause radio interference in which case the user may be required to take adequate measures.

Clase A. Aviso de ITE

ADVERTENCIA: Este es un producto de Clase A. En un ambiente doméstico este producto puede causar interferencia de radio en cuyo caso puede ser requerido tomar medidas adecuadas.

Klasse A ITE Anmerkung

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This product complies with the following: UL 60950, CSA C22.2 No. 60950, 73/23/EEC, EN 60950, IEC 60950.

Seguridad del Producto

El producto de Enterasys cumple con lo siguiente: UL 60950, CSA C22.2 No. 60950, 73/23/EEC, EN 60950, IEC 60950.

Produktsicherheit

Dieses Produkt entspricht den folgenden Richtlinien: UL 60950, CSA C22.2 No. 60950, 73/23/EEC, EN 60950, IEC 60950.

Electromagnetic Compatibility (EMC)

This product complies with the following: 47 CFR Parts 2 and 15, ICES-003, 89/336/EEC, EN 60825, EN 55022, EN 61000-3-2, EN 61000-3-3, EN 55024, AS/NZS CISPR 22, VCCI V-3.

Compatibilidad Electromagnética (EMC)

Este producto de Enterasys cumple con lo siguiente: 47 CFR Partes 2 y 15, ICES-003, 89/336/EEC, EN 60825, EN 55022, EN 55024, EN 61000-3-2, EN 61000-3-3, AS/NZS CISPR 22, VCCI V-3.

Elektro-magnetische Kompatibilität (EMC)

Dieses Produkt entspricht den folgenden Richtlinien: 47 CFR Parts 2 and 15, ICES-003, 89/336/EEC, EN 60825, EN 55022, EN 61000-3-2, EN 61000-3-3, EN 55024, AS/NZS CISPR 22, VCCI V-3.

Hazardous Substances

This product complies with the requirements of European Directive, 2002/95/EC, Restriction of Hazardous Substances (RoHS) in Electrical and Electronic Equipment.

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Declaration of Conformity

Application of Council Directive(s): 89/336/EEC
73/23/EEC

Manufacturer's Name: Enterasys Networks, Inc.

Manufacturer's Address: 50 Minuteman Road
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Conformance to Directive(s)/Product Standards: EC Directive 89/336/EEC
EN 55022
EN 61000-3-2
EN 61000-3-3
EN 55024
EC Directive 73/23/EEC
EN 60950

Equipment Type/Environment: Networking Equipment, for use in a Commercial
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About This Guide

This installation guide provides the necessary information to install and configure a RoamAbout RBT-8110 Wireless Switch within an enterprise network.

Intended Audience



This document is intended for experienced network administrators who are responsible for implementing and maintaining communications networks.

Associated Documents

- *RoamAbout Mobility System Software Configuration Guide*. Explains how to configure and manage an Enterasys Networks Mobility System Software™ wireless LAN (WLAN) using the Mobility System Software™ command line interface (CLI) commands that you enter on a RoamAbout Switch (RAS).
- *RoamAbout Mobility System Software Command Line Interface Reference*. Explains the Mobility System Software (MSS) command line interface (CLI) commands that you enter on a RoamAbout Switch (RAS) to configure and manage the Mobility System wireless LAN (WLAN).
- *RoamAbout Switch Manager Users Guide*. Explains how to plan, configure, deploy, and manage an Enterasys Networks Mobility System Wireless LAN (WLAN) using the RoamAbout Switch Manager (RASM) tool suite.

Conventions Used in This Guide

The following conventions are used in this document.

bold type	Actual user input values or names of screens and commands.
blue type	Indicates a hypertext link. When reading this document online, click the text in blue to go to the referenced figure, table, or section.
<i>italic type</i>	User input value required.
<code>courier</code>	Used for command-level input or output.
	Note: Calls the reader's attention to any item of information that may be of special importance.
	Caution: Contains information essential to avoid damage to the equipment. Precaución: Contiene información esencial para prevenir dañar el equipo. Achtung: Verweist auf wichtige Informationen zum Schutz gegen Beschädigungen.



Electrical Hazard: Warns against an action that could result in personal injury or death due to an electrical hazard.

Riesgo de electrocución: Advierte contra una acción que pudiera resultar en lesión corporal o la muerte debido a un riesgo eléctrico.

Elektrische Spannung: Warnung vor sämtlichen Handlungen, die zu Verletzung von Personen oder Todesfällen – hervorgerufen durch elektrische Spannung – führen können!



Warning: Warns against an action that could result in personal injury or death.

Advertencia: Advierte contra una acción que pudiera resultar en lesión corporal o la muerte.

Warnung: Warnung vor Handlungen, die zu Verletzung von Personen oder gar Todesfällen führen können!

Getting Help

For additional support related to the product or this document, contact Enterasys Networks using one of the following methods:

World Wide Web	http://www.enterasys.com/services/support
Phone	1-800-872-8440 (toll-free in U.S. and Canada) or 1-978-684-1000 For the Enterasys Networks Support toll-free number in your country: http://www.enterasys.com/services/support/contact/
Internet mail	support@enterasys.com To expedite your message, please type [RoamAbout] in the subject line.

To send comments or suggestions concerning this document to the Technical Publications Department:
techpubs@enterasys.com

To expedite your message, please include the document Part Number in the email message.

Before contacting Enterasys Networks for technical support, have the following information ready:

- Your Enterasys Networks service contract number
- A description of the failure
- A description of any action(s) already taken to resolve the problem (for example, changing mode switches or rebooting the unit)
- The serial and revision numbers of all involved Enterasys Networks products in the network
- A description of your network environment (such as layout, cable type, other relevant environmental information)
- Network load and frame size at the time of trouble (if known)
- The device history (for example, if you have returned the device before, or if this a recurring problem)
- Any previous Return Material Authorization (RMA) numbers

RBT-8110 Wireless Switch Overview

The RBT-8110 Wireless Switch is designed to support the RoamAbout Wireless System Software. This chapter describes the components shipped with the wireless switch and switch requirements.

Kit Contents

Your RBT-8110 Wireless Switch kit includes the following components:

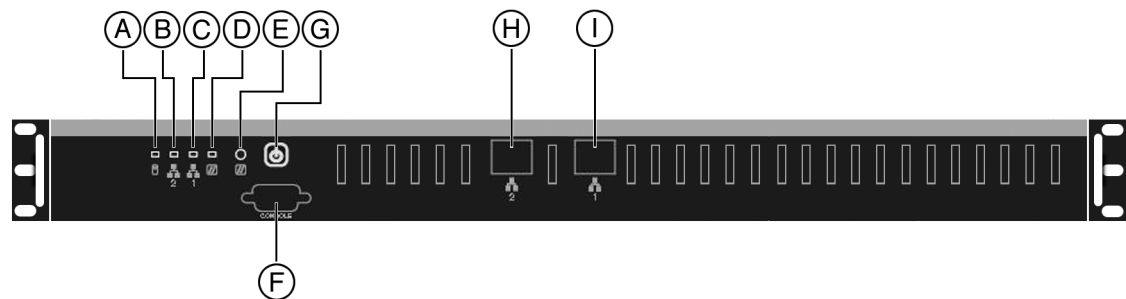
- Switch chassis (with attached front rack mount brackets)
- One non-redundant power supply
- One power cord (U.S. version)
- One null modem cable
- Mid-mount rack mounting accessory kit

Front Panel Controls and Indicators

Figure 1-1 shows the chassis front panel.

Table 1-1 describes the control button functions and Table 1-2 describes the LED status.

Figure 1-1 Front Panel Controls and Indicators



A. Hard drive activity LED	D. Status/Power LED	G. Power button
B. NIC 2 activity LED	E. Reset button	H. NIC2 connector (10/100/1000 Mbit)
C. NIC 1 activity LED	F. Console port connector	I. NIC1 connector (10/100/1000 Mbit)

Table 1-1 Control Button Functions

Button	Function
Power	Toggles the system power on/off.
Reset	Performs a soft system re-boot.

Table 1-2 LED Indicator Status

LED	Function
NIC1 activity	<ul style="list-style-type: none">• A continuous amber light indicates a link between the system and the network to which it is connected.• A blinking amber light indicates network activity.
NIC2 activity	
Status/Power	<ul style="list-style-type: none">• A continuous blue light indicates that the system has power applied to it.• No light indicates that the system does not have power applied to it.
Hard drive disk status	<ul style="list-style-type: none">• A continuous blue light indicates a hard drive disk fault.• A random blinking blue light indicates hard drive activity.

Chassis Back Panel

Figure 1-2 shows the RBT-8110 Wireless Switch back panel.

Figure 1-2 Back Panel



- | | |
|-------------------------------|--------------------|
| A. Keyboard, mouse connectors | C. Power supply |
| B. Video connector | D. Power connector |

Power Supply

The 400 watt EPS PFC power supply voltage specifications are listed in [Table 1-3](#):

Table 1-3 Power Supply Specifications

Parameter	Description
Input voltage	100 to 125 Vac, 6 A, 50/60 Hz 200 to 240 Vac, 3 A, 50/60 Hz
Output voltage	<ul style="list-style-type: none"> • 5 V (3 A – 25 A) • 12 V (2 A – 28 A) • -5 V (0 A– 0.5 A) • -12 V (0 A– 0.5 A) • 3.3 V (1 A– 20 A) • +5 V standby (0.1 A– 2 A)

Physical Specifications

The physical specifications for the RBT-8110 Wireless Switch chassis are listed in [Table 1-4](#).

Table 1-4 Physical Specifications

Parameter	Approximate Specification
Width	437 mm (17.2 in.)
Height	44.4 mm (1.75 in.)
Depth	452.16 mm (17.8 in.)
Weight	15.4 lb (7 kg)
Materials	Heavy-duty pre-plated SPGC cold-rolled steel
Cooling	Four 40x28 mm fans

Environmental Specifications

Ensure that the environmental specifications are within the ranges described in [Table 1-5](#).

Table 1-5 Environmental Specifications

Parameter	Description
Operating Temperature	0°C to 50°C (50°F to 95°F) with the maximum rate of change not to exceed 10°C per hour
Non-Operating Temperature	40°C to +70°C (104°F to 158°F)
Altitude	-60 meters (-197 feet) below sea level to 4000 meters (13,123 feet) above sea level
Non-Operating humidity	5% to 95%, non-condensing
Acoustic noise	Sound Pressure: 55 dBA (Rackmount) in an idle state at typical office ambient temperature (23°C +/- 2°C) Sound Power: 7.0 BA in an idle state at typical office ambient temperature (23°C +/- 2 °C)
Operating Shock	No errors with a half sine wave shock of 2G (with 11 millisecond duration)
ESD	+/-15k V per Intel Environmental test specification
System Cooling Requirement in BTU/Hr.	1826 BTU/hour

Installation

This chapter describes how to install the RBT-8110 into a rack. Refer to the Safety Information before you install the chassis into a rack.

Safety Information



Electrical Hazard: Servicing – Prior to servicing the equipment, disconnect all power supplies.

Elektrische Spannung: Wartung – Vor der Ausführung von Wartungsarbeiten am Gerät muss das Gerät von allen Stromversorgungen getrennt werden.

Riesgo de electrocución: Servicio. Antes de dar servicio al equipo, desconecte todas las fuentes de energía.



Warning: Refer to the following information:

Warnung: Folgende Informationen sind zu beachten:

Advertencia: Consulte la siguiente información:

- **Elevated Operating Ambient** – If installed in a closed or multi-unit rack assembly, the operating ambient temperature of the rack environment may be greater than room ambient. Therefore, consideration should be given to installing the equipment in an environment compatible with the maximum ambient temperature (T_{ma}) of 40° C (104° F).

Erhöhte Betriebstemperatur: Bei Installation in einem geschlossenen Rack bzw. einer Rackgruppe ist die Betriebstemperatur innerhalb der Rackumgebung möglicherweise höher als die Raumtemperatur. Es muss darauf geachtet werden, dass das Gerät nur in Umgebungen mit einer maximalen Umgebungstemperatur (T_{ma}) von 40 °C installiert wird.

Ambiente de operación elevado: si se instala en un mecanismo de estantes de varias unidades, la temperatura del ambiente de operación de los estantes podría ser mayor que la del ambiente a nivel de habitación. Por lo tanto, debe considerar la posibilidad de instalar el equipo en un entorno compatible con la temperatura ambiente máxima (T_{ma}) de 40° C (104° F).

- **Reduced Air Flow** – Installation of the equipment in a rack or cabinet should be such that the amount of airflow required for safe operation of the equipment is not compromised.

Verminderte Luftzirkulation: Bei der Installation des Geräts in einem Rack oder Schaltschrank muss sichergestellt werden, dass die für einen sicheren Betrieb des Geräts erforderliche Luftzirkulation gewährleistet ist.

Flujo de aire reducido: la instalación del equipo en un estante o gabinete deberá realizarse de manera tal que no se reduzca la cantidad de aire necesaria para el funcionamiento seguro del equipo.



Warning: Refer to the following information:

Warnung: Folgende Informationen sind zu beachten:

Advertencia: Consulte la siguiente información:

- **Mechanical Loading** – Mounting of the equipment in the rack or cabinet should be such that a hazardous condition is not achieved due to uneven mechanical loading.

Mechanische Last: Bei der Montage des Geräts in einem Rack oder Schaltschrank ist dafür zu sorgen, dass keine Gefahrensituation infolge einer unausgeglichene mechanischen Last auftreten kann.

Carga mecánica: el montaje del equipo en el estante o gabinete deberá realizarse de manera tal que no se produzcan condiciones peligrosas debidas a una carga mecánica dispareja.

- **Circuit Overloading** – Consideration should be given to the connection of the equipment to the supply circuit and the effect that overloading of the circuits might have on over current protection and supply wiring. Appropriate consideration of equipment nameplate ratings should be used when addressing this concern.

Stromkreisüberlastung: Der Anschluss des Geräts an den Versorgungsstromkreis sowie die Auswirkungen von Stromkreisüberlastungen auf den Stromschutz und die Verdrahtung der Stromversorgung erfordern sorgfältige Planung. Hierzu müssen die Angaben auf dem Typenschild der einzelnen Geräte berücksichtigt werden.

Sobrecarga del circuito: deberá considerarse la conexión del equipo con el circuito de suministro, así como el efecto que sobrecargar los circuitos podría tener en la protección de exceso de corriente y en el cableado del suministro. Deberá prestarse la consideración apropiada a los índices en la placa de identificación del equipo al tratar de resolver este problema.

- **Reliable Earthing** – Reliable earthing of rack-mounted equipment should be maintained. Particular attention should be given to supply connections other than direct connections to the branch circuit. (e.g. use of power strips).

Sichere Erdung: Die sichere Erdung von in Racks montierten Geräten muss gewährleistet sein. Mit besonderer Umsicht muss bei Verwendung indirekter Verbindungen mit dem Stromnetz vorgegangen werden (beispielsweise bei Verwendung von Mehrfachsteckdosen).

Tierra física confiable: deberá mantenerse una conexión a tierra confiable para todo el equipo montado en el estante, poniendo especial atención en las conexiones del suministro, además de las conexiones directas al circuito secundario. (por ejemplo, el uso de tiras de contactos).

- **Redundant Power Supplies** - Where redundant power supplies are provided with the equipment, each power supply shall be connected to a separate circuit to optimize the equipment redundancy.

Redundante Stromversorgungen: Wenn Geräte mit redundanten Stromversorgungen gespeist werden, müssen die einzelnen Stromversorgungen an unterschiedliche Stromkreise angeschlossen werden, um die Geräteredundanz zu optimieren.

Fuentes de energía redundantes: siempre que se proporcionen fuentes de energía redundantes con el equipo, cada una deberá conectarse a un circuito distinto, para optimizar la redundancia del equipo.

- Risk of explosion if battery is replaced by incorrect type.

Werden Batterien oder Akkus nicht durch den korrekten Typ ersetzt, besteht Explosionsgefahr.

Existe el riesgo de una explosión si la batería se reemplaza por otra del tipo equivocado.



Warning: Refer to the following information:

Warnung: Folgende Informationen sind zu beachten:

Advertencia: Consulte la siguiente información:

- Dispose of used batteries according to the instructions Enterasys recommends that you contact Technical Support at www.enterasys.com/services/support/contact/ for service.

Gebrauchte Batterien oder Akkus sind gemäß den Vorschriften zu entsorgen. Enterasys empfiehlt, sich mit dem technischen Support unter www.enterasys.com/services/support/contact/ in Verbindung zu setzen und Kundendienst anzufordern.

Deseche las baterías usadas de acuerdo con las instrucciones. Enterasys le recomienda que se ponga en contacto con el departamento de Asistencia técnica, en www.enterasys.com/services/support/contact/ si requiere servicio.



Caution: There is an explosion risk if you replace the battery with the incorrect type. Replace with model CR2032 only. A used battery may be safely disposed of in household waste.

Precaución: Hay riesgo de explosión si la batería se reemplaza con el tipo incorrecto. Reemplace solo con el modelo CR2032. Puede tirar la batería usada en la basura.

Rack Mounting

This section describes how to install the RBT-8110 into a rack.

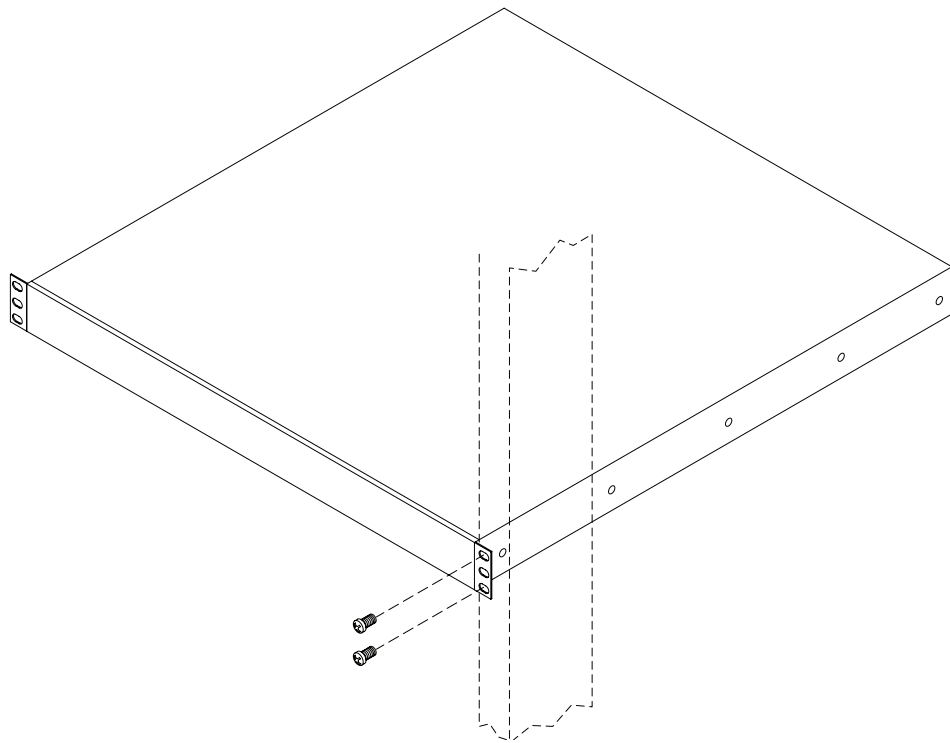
Rack mount options include:

- Front mounting
- Front mount and mid-mount

Front Mount

Figure 2-1 shows the RBT-8110 front panel being attached to the rack.

Figure 2-1 Rack Mounting—Front Mount



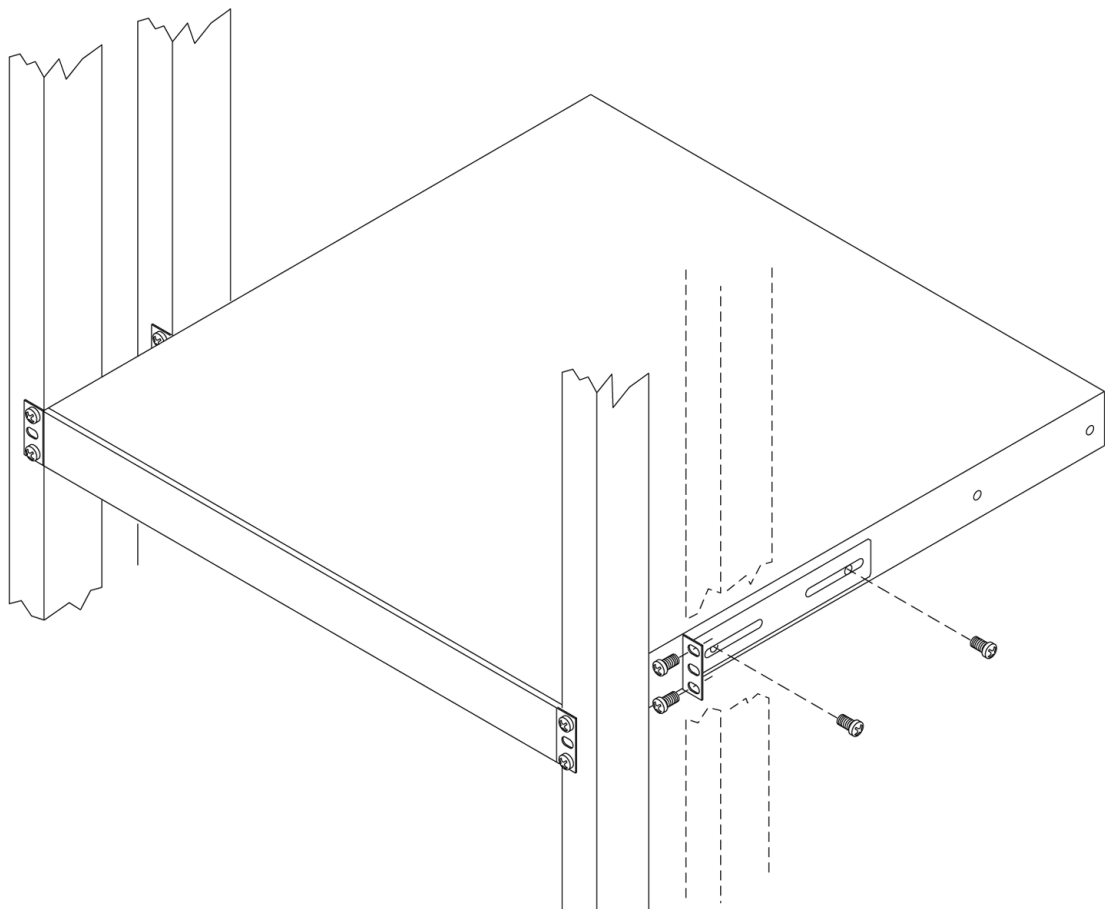
Mid-Mount

The RBT-8110 ships with a mid-mount accessory kit. [Figure 2-2](#) shows the RBT-8110 installed in a rack, with the front mount attached, and a mid-mount placement example.

To attach the chassis to the rack, perform the following steps:

1. Use the two mounting holes closest to the center of the chassis for more balanced mounting position.
2. Use the M4 screws (2 screws for each side) to secure the center mounting bracket to the chassis. Use the M5 screws to secure the chassis to the post of the rack.

Figure 2-2 Rack Mounting—Mid-Mount



Configuration

Once a RoamAbout Wireless Switch is physically installed into a rack, you need to connect the cables (see [Figure 1-1](#)), power it on (see [Figure 1-2](#)), and go through the initial configuration process described in this chapter.

For more information about configuration of the Mobility System Software on a wireless switch, refer to the *RoamAbout Mobility System Software Configuration Guide* and the *RoamAbout Mobility System Software Command Line Interface Reference Guide*.

Pre-Configuration Tasks

The following information is needed prior to executing any of the steps in this chapter:

- IP Addresses
- Network Subnet Masks

Wireless Switch Configuration Tasks

Once the wireless switch is physically installed and powered on, you can set up its configuration. This section describes two ways to configure a newly-installed wireless switch—using the **quickstart** CLI command at the switch's serial console port, and remotely configuring the switch using RoamAbout Switch Manager.

Using the CLI quickstart Command

You can use the **quickstart** command to quickly configure a new, previously unconfigured wireless switch. The **quickstart** command runs a script that interactively helps you configure the following items:

- System name
- Country code (regulatory domain)
- System IP address
- Default route
- Administrative users and passwords
- Unencrypted (clear) SSID names
- Usernames and passwords for guest access using WebAAA
- Encrypted (crypto) SSID names and dynamic WEP encryption for encrypted SSIDs' wireless traffic

- Usernames and passwords for secure access using 802.1X authentication using PEAP-MSCHAP-V2 and secure wireless data encryption using dynamic Wired Equivalent Privacy (WEP)
- Directly connected access points
- Distributed access points

The **quickstart** command displays a prompt for each of these items, and lists the default if applicable. You can advance to the next item, and accept the default if applicable, by pressing **Enter**.

Depending on your input, the command also automatically generates the following key pairs and self-signed certificates:

- SSH key pair (always generated)
- Admin key pair and self-signed certificate (always generated)
- EAP (802.1X) key pair and self-signed certificate (generated if you type usernames and passwords for users of encrypted SSIDs)
- WebAAA key pair and self-signed certificate (generated if you type usernames and passwords for users of unencrypted SSIDs)



Note: The **quickstart** command is for configuration of a new wireless switch only. After prompting you for verification, the command erases the switch's configuration before continuing. If you run this command on a switch that already has a configuration, the configuration will be erased. In addition, error messages such as Critical AP Notice for directly connected APs can appear.

One of the questions the script asks is the country code. For a list of valid country codes, refer to either the *RoamAbout Mobility System Software Configuration Guide* or the *RoamAbout Mobility System Software Command Line Interface Reference Guide*.

Another question the script asks is, "Do you wish to configure wireless?" If you answer **y**, the script goes on to ask you for SSID and user information, for unencrypted and encrypted SSIDs. If you answer **n**, the script generates key pairs for SSH and the administrative users you entered, generates a self-signed administrative certificate, and then ends.

quickstart Command Procedure

To run the **quickstart** command:

- Using the null modem cable shipped with the RBT-8100, attach a PC to the RoamAbout wireless switch's serial console port. Use these modem settings:
 - 9600 bps, 8 bits
 - 1 stop
 - No parity
 - Hardware flow control *disabled*



Note: Do not attempt to connect a monitor, keyboard, or mouse to the switch. Use only a null modem cable connected to the serial console port.

- Press **Enter** three times, to display a username prompt (Username:), a password prompt (Password:), and then a command prompt such as the following:

```
RBT-8110-aabbcc>
```

(Each switch has a unique system name that contains the model number and the last half of the switch's MAC address.)

- Access the *enabled* level (the configuration level) of the CLI:

```
RBT-8110-aabbcc> enable
```

- Press **Enter** at the Enter password prompt.
- Type **quickstart**. The command asks you a series of questions. You can type ? for more help. To quit, press **Ctrl+C**. The following example code accepts the defaults for system name and country code, and does not configure SSIDs, user information, or distributed access points.

```
RBT-8110-aabbcc# quickstart
This will erase any existing config. Continue? [n]: y
Answer the following questions. Enter '?' for help. ^C to break out
System Name [RBT-8110]:RBT-8110-aabbcc
Country Code [US]: US
System IP address []: 182.29.1.250
System IP address netmask []: 255.255.255.0
Default route []: 182.29.1.1
Do you need to use 802.1Q tagged ports for connectivity on the default VLAN?
[Y/N]: y
Specify the port number that needs to be tagged [1-2, <CR> ends config]: 2
Specify the tagged value for port [2] [<CR> ends config:] 100
Specify the port number that needs to be tagged [1-2, <CR> ends config]:
Enable WebView [y]: y
Admin username [admin]: rbtadmin
Admin password [mandatory]: letmein
Enable password [optional]: enable
Do you wish to set the time? [y]: y
Enter the date (dd/mm/yy) []: 31/03/06
Is daylight saving time (DST) in effect [n]: n
Enter the time (hh:mm:ss) []: 04:36:20
Enter the timezone []: EST
Enter the offset (without DST) from GMT for 'PST' in hh:mm [0:0]: -5:00
Do you wish to configure wireless? [y]: y
Enter a clear SSID to use: public
```

```
Do you want Web Portal authentication? [y]: y
Enter a username to be used with Web Portal, <cr> to exit: user1
Enter a password for user1: user1pass
Enter a username to be used with Web Portal, <cr> to exit:
Do you want to do 802.1x and PEAP-MSCHAPv2? [y]: y
Enter a crypto SSID to use: corporate
Enter a username with which to do PEAP-MSCHAPv2, <cr> to exit: bob
Enter a password for bob: bobpass
Enter a username with which to do PEAP-MSCHAPv2, <cr> to exit:
Do you wish to configure access points? [y]: y
Enter a port number [1-2] on which an AP resides, <cr> to exit: 2
Enter AP model on port 2: RBT-1602
Enter a port number [1-2] on which an AP resides, <cr> to exit:
Do you wish to configure distributed access points? [y]: y
Enter a DAP serial number, <cr> to exit: 123456789
Enter model of DAP with S/N 123456789: RBT-1602
Enter a DAP serial number, <cr> to exit:
success: created keypair for ssh
success: Type "save config" to save the configuration
RBT-8110-aabbcc# save config
RBT-8110#
```

6. Optionally, enable Telnet.

```
RBT-8110# set ip telnet server enable
```

7. Verify the configuration changes.

```
RBT-8110# show config
```

8. Save the configuration changes.

```
RBT-8110# save config
```

Configuring RoamAbout Wireless Switches Using RASM

You can use the RoamAbout Switch Manager (RASM) running in your corporate network to configure RoamAbout wireless switches. You can stage any model of wireless switch by preconfiguring IP connectivity and enabling auto-config, then sending the switch to the remote office. The switch contacts RASM in the corporate network to complete its configuration.

This installation option requires someone to preconfigure the switch in a RASM network plan and someone to physically install and power on the switch.

Preconfigure the Wireless Switch in RASM

If you know the switch's serial number, use the following procedure to set up the switch's configuration in RASM.

1. Start RASM Services.
2. Start a RASM client and connect to RASM Services.
3. Select **Services > Setup** from the menu bar in the main RASM window. A browser window containing the Setup page appears.



Note: If a certificate check dialog box appears, click **Accept** or **OK** to accept the certificate.

4. Select the RAS Connection Settings in the column on the left.
5. Select **Accept self-signed certificates**, in the Connection Security area.
6. Click **Save**.
7. Open the network plan for the site, or create a new one.
8. Access the Create Mobility Exchange wizard:
 - a. Select the **Configuration** toolbar option.
 - b. In the Organizer panel, select the network plan name.
 - c. In the Task List panel, select **Create Mobility Exchange**.
9. Enter a name for the switch in the RAS Name box.
10. Select the switch model.
11. Enter the serial number in the Serial Number box.
12. Configure other parameters as required for the switch's deployment.



Note: You can configure an enable password for the switch even if it does not already have one. When sending the configuration, RASM tries the configured password first, then tries a blank password if the enable password does not match the one on the switch. If the switch does not have an enable password, the blank password is accepted. RASM then sends the configuration to the switch, including the configured (non-blank) enable password.

13. Click **Finish** to save the switch configuration and close the wizard.

Leave RASM Services running, with the network plan open. When the switch is powered on at the remote site, the switch contacts RASM Services to request a configuration.

Stage the Wireless Switch

You can use this method of remote configuration for any RoamAbout wireless switch, and regardless of whether the local office (the switch installation site) has a DHCP server or DNS server.

Preparing the Network

If the network where the switch will be installed has a DNS server, add an entry that maps the IP address of RASM Services to the hostname wlan-config-srv. Include the corporate network's domain name in the entry (for example, wlan-config-srv.example.com). Alternatively, you can configure an IP alias on the switch itself that maps the server IP address to this well-known name. (See "Example 2: Deployment Site Has No DHCP and No DNS" on page 3-7.)

Preparing the Switch

Preconfigure the RoamAbout wireless switch with the following information:

- IP address
- Default router (gateway) address
- Domain name and DNS server address

You can enable the switch to use the MSS DHCP client to obtain this information from a DHCP server in the local network where the switch will be deployed. Alternatively, you can statically configure the information.

The IP address and DNS information are configured independently. You can configure the combination of settings that work with the network resources available at the deployment site. The following examples show some of the combinations you can configure.

Example 1: Deployment Site Has DHCP and Local DNS

The deployment site in this example has a DHCP server. The switch is configured to use the MSS DHCP client to obtain an IP address, default router address, DNS domain name, and DNS server IP addresses.

1. Configure a VLAN:

```
RBT-8110# set vlan 1 port 1
```

2. Enable the DHCP client on VLAN 1:

```
RBT-8110# set interface 1 ip dhcp-client enable
```

3. Enable the auto-config option:

```
RBT-8110# set auto-config enable
```

4. Save the configuration changes:

```
RBT-8110# save config
```

5. Reset the switch by using one of the following methods:

- Enter the following command:

```
RBT-8110# reset system
```

- Turn the power off to the switch, and then turn the power back on.

Example 2: Deployment Site Has No DHCP and No DNS

The deployment site in this example does not have a DHCP server or a local DNS server. Therefore, IP and DNS information must be statically configured. Because no DNS server is available, an IP alias is configured to map the RASM server's IP address to the well-known hostname *wlan-config-srv*.

1. Configure a VLAN:

```
RBT-8110# set vlan 1 port 1
```

2. Configure an IP interface on the VLAN.

```
RBT-8110# set interface 1 ip 192.168.1.252 255.255.255.0
```

3. Configure a default route through the local gateway:

```
RBT-8110# set ip route default 192.168.1.1 1
```

4. Configure the default DNS domain name:

```
RBT-8110# set ip dns domain example.com
```

5. Configure an IP alias to map the RASM server IP address to the well-known name *wlan-config-srv*:

```
RBT-8110# set ip alias wlan-config-srv 172.16.22.84
```

6. Enable the auto-config option:

```
RBT-8110# set auto-config enable
```

7. Save the configuration changes:

```
RBT-8110# save config
```

8. Reset the switch by using one of the following methods:

- Enter the following command:

```
RBT-8110# reset system
```

- Turn the power off to the switch, and then turn the power back on.

Example 3: Deployment Site Has DNS But No DHCP

The deployment site in this example does not have a DHCP server but does have a local DNS server. The configuration is similar to Example 1, but includes DNS configuration information instead of an IP alias.

1. Configure a VLAN:

```
RBT-8110# set vlan 1 port 1
```

2. Configure an IP interface on the VLAN.

```
RBT-8110# set interface 1 ip 192.168.1.252 255.255.255.0
```

3. Configure a default route through the local gateway:

```
RBT-8110# set ip route default 192.168.1.1 0
```

4. Configure the default DNS domain name:

```
RBT-8110# set ip dns domain example.com
```

5. Configure DNS server information:

```
RBT-8110# set ip dns server 192.168.11.2
```

6. Enable the MSS DNS client:

```
RBT-8110# set ip dns server enable
```

7. Enable the auto-config option:

```
RBT-8110# set auto-config enable
```

8. Save the configuration changes:

```
RBT-8110# save config
```

9. Reset the switch by using one of the following methods:

- Enter the following command:

```
RBT-8110# reset system
```

- Turn the power off to the switch, and then turn the power back on.

Example 4: Deployment Site Has DHCP But Local DNS Domain Differs From Corporate DNS Domain

The deployment site in this example has a DHCP server, so the switch's DHCP client is enabled. Static IP address and default router (gateway) information are not required. The site also has a local DNS server. However, the local DNS domain name is different from the corporate DNS domain name where the RASM server is located. The static DNS configuration on the switch overrides the DNS configuration from the DHCP server.

1. Configure a VLAN:

```
RBT-8110# set vlan 1 port 1
```

2. Enable the DHCP client on VLAN 1:

```
RBT-8110# set interface 1 ip dhcp-client enable
```

3. Configure the default DNS domain name:

```
RBT-8110# set ip dns domain customer.com
```

4. Configure DNS server information:

```
RBT-8110# set ip dns server 192.168.11.2
```

5. Enable the MSS DNS client:

```
RBT-8110# set ip dns server enable
```

6. Enable the auto-config option:

```
RBT-8110# set auto-config enable
```

7. Save the configuration changes:

```
RBT-8110# save config
```

8. Reset the switch by using one of the following methods:

- Enter the following command:

```
RBT-8110# reset system
```

- Turn the power off to the switch, and then turn the power back on.

Preparing the Network for Distributed Access Points

An AP that is not directly connected to a RoamAbout wireless switch is considered a Distributed AP (DAP). RoamAbout APs are DAPs that require the following support in order to find a RoamAbout wireless switch to configure and manage them:

- Power—Power over Ethernet (PoE) must be provided on one of the Ethernet connections to the AP. Use a PoE injection device that has been tested by Enterasys Networks. Providing PoE on both of the Ethernet connections allows for redundant PoE.
- DHCP—A Distributed AP uses IP for communication, and relies on DHCP to obtain IP parameters. Therefore, DHCP services must be available on the subnet that the AP is connected to. DHCP must provide the following parameters to the AP:
 - IP address
 - Default router (gateway) address

The DHCP server might also need to supply the following DNS parameters, unless the RoamAbout wireless switch is in the same subnet as the APs, or DHCP option 43 is used to supply a list of RoamAbout wireless switch IP addresses or hostnames in the DHCP message.

- Domain name
- DNS server address
- DNS—If the intermediate network between the RoamAbout wireless switch and DAP includes one or more IP routers, do one of the following:
 - Configure DHCP option 43 on the DHCP server (see above).
 - Create a wlan-switch.*mynetwork.com* entry on the DNS server.

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